CorrectedSeq-filed-2011-Mar-0105UTL2.TXT SEQUENCE LISTING

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<110> SOARES, CHRISTOPHER J.
      HANLEY, MICHAEL R.
      LEWIS, DIANA YVONNE
      PARKES, DAVID GEOFFREY
      JODKA, CAROLYN MARIE
      PRICKETT, KATHRYN S.
      GHOSH, SOUMITRA
      MACK, CHRISTINE MARIE
      LIN, QING
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<151> 2005-02-11
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<220>
<221> MOD_RES
<222> (31)
<223> Ala or Thr
<220>
<221> MOD_RES
<222> (32)
<223> Phe, Pro, or Tyr
<400> 36
Xaa Xaa Xaa Xaa Thr Xaa Xaa Xaa Xaa Leu Xaa Xaa Leu
                                     10
                                                          15
Xaa Xaa Xaa Xaa Xaa Pro Xaa Thr Asn Xaa Gly Ser Xaa Xaa Xaa
                                 25
             20
<210> 37
<211> 3
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      peptide
<400> 37
Gln Thr Tyr
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<210> 38
<211> 4
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      peptide
<400> 38
Leu Gln Thr Tyr
<210> 39
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (1)
<223> Ala, Cys, Asp, Phe, Lys, Thr, or not
      present
<220>
<221> MOD_RES
<222> (2)
<223> Ala, Cys, Asp, Ser, or not present
<220>
<221> MOD_RES
<222> (3)
<223> Ala, Asp, Asn, or not present
<220>
<221> MOD_RES
<222> (4)
<223> Ala, Leu Thr, or not present
<220>
<221> MOD_RES
<222> (5)
<223> Ala or Ser
<220>
<221> MOD_RES
<222> (6)
<223> Ala, Ser, Thr, or Val
<220>
<221> MOD_RES
<222> (7)
<223> Ala, Cys, or Lys
<220>
<221> MOD_RES
<222> (8)
<223> Ala, Leu, Met, or Val
<220>
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<221> MOD_RES
<223> Leu or Thr
<221> MOD_RES
<222> (10)
<223> Gly, His, or Gln
<221> MOD_RES
<222> (11)
<223> Lys, Gln, or Arg
<221> MOD_RES
<222> (12)
<223> Leu, Trp, or Tyr
<221> MOD_RES
<222> (13)
<223> Ala, Asn, Gln, Ser, or Thr
<221> MOD_RES
<222> (14)
<223> Ala, Asp, Glu, Gly, Lys, Asn, Gln, or Arg
<221> MOD_RES
<222> (15)
<223> Ala, Asp, Glu, Phe, Leu, Ser, or Tyr
<221> MOD_RES
<222> (16)
<223> Phe or Leu
<221> MOD_RES
<222> (17)
<223> His, Gln, Ser, or Val
<221> MOD_RES
<222> (18)
<223> Lys or Arg
<221> MOD_RES
<222> (19)
<223> Phe, Leu, Ser, or not present
<221> MOD_RES
<222> (20)
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<222> (9)

<220>

<220>

<220>

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<220>

<220>

<220>

<220>

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<220>

<220>

<220>

<221> MOD_RES

<222> (21)

<223> His, Lys, Gln, or not present

<223> Gln, Thr, or not present

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<220>
<221> MOD_RES
<222> (22)
<223> Phe, Leu, or Tyr
<220>
<221> MOD_RES
<222> (24)
<223> Pro or Arg
<220>
<221> MOD_RES
<222> (27)
<223> Thr or Val
<220>
<221> MOD_RES
<222> (30)
<223> Glu, Lys, or Asn
<220>
<221> MOD_RES
<222> (31)
<223> Ala or Thr
<220>
<221> MOD_RES
<222> (32)
<223> Phe, Tyr, or not present
<400> 39
15
                                   10
Xaa Xaa Xaa Xaa Xaa Aro Xaa Thr Asn Xaa Gly Ser Xaa Xaa Xaa
<210> 40
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
     amino acid sequence
<400> 40
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Lys Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 41
<211> 32
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 41
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Leu Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 42
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 42
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Pro Thr Asn Thr Gly Ser Asn Thr Tyr
                                 25
<210> 43
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 43
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Val Gly Ser Asn Thr Tyr
            20
<210> 44
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 44
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
                                    10
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His Arg Leu Gln Thr Leu Pro Pro Thr Asn Val Gly Ser Asn Thr Tyr 20 25 30

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<210> 45
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<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic amino acid sequence

<400> 45

Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Asn Phe Leu 1 5 15

His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr 20 25 30

<210> 46

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic amino acid sequence

<400> 46

Ala Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu 1 5 15

His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr 20 25 30

<210> 47

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic amino acid sequence

<400> 47

Lys Cys Asn Ala Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu 10 15

His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr 20 25 30

<210> 48

<211> 32

<212> PRT

<213> Artificial Sequence

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<220>
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      amino acid sequence
<400> 48
Lys Cys Asn Thr Ala Ala Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 49
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 49
Cys Ala Asn Leu Ser Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 50
<211> 28
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (1)..(1)
<223> Isocaproyl-Ser
<400> 50
Ser Thr Ala Val Leu Gly Arg Leu Ser Gln Glu Leu His Arg Leu Gln
Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 51
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<400> 51
Cys Ser Asn Ala Ser Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 52
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 52
Cys Ser Asn Leu Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 53
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
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amino acid sequence

<400> 53 Cys Ser Asn Leu Ser Ala Cys Val Leu Gly Arg Leu Ser Gln Glu Leu

His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr

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<210> 54
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 54
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His Lys Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr 25 20

Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu

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<210> 55
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 55
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Gly Thr Pro
            20
<210> 56
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 56
Cys Ser Ala Leu Ser Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
                                 25
            20
                                                     30
<210> 57
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (1)
<223> Ac-Agy
<220>
<221> MOD_RES
<222> (7)
<223> Agy
<400> 57
Xaa Ser Asn Leu Ser Thr Xaa Val Leu Gly Arg Leu Ser Gln Glu Leu
                                                         15
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
                                 25
            20
                                       Page 28
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<210> 58
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (1)
<223> Ac-Lys
<220>
<221> MOD_RES
<222> (2)
<223> Agy
<220>
<221> MOD_RES
<222> (7)
<223> Agy
<400> 58
Lys Xaa Asn Thr Ala Thr Xaa Val Leu Gly Arg Leu Ser Gln Glu Leu
                                                          15
                                     10
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 59
<211> 27
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (1)
<223> Isocaproyl-Ser
<220>
<221> MOD_RES
<222> (6)
<223> Aib
<400> 59
Ser Thr Ala Val Leu Xaa Arg Leu Ser Gln Glu Leu Arg Leu Gln Thr
Tyr Pro Arg Thr Asn Thr Gly Ser Gly Thr Pro
            20
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<210> 60
<211> 28
<212> PRT
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<222> (1)
<223> Isocaproyl-Ser
<220>
<221> MOD_RES
<222> (7)
<223> Lys(For)
<220>
<221> MOD_RES
<222> (14)
<223> Lys(For)
<400> 60
Ser Thr Ala Val Leu Gly Lys Leu Ser Gln Glu Leu His Lys Leu Gln
Thr Tyr Pro Arg Thr Asn Thr Gly Ser Gly Thr Pro
<210> 61
<211> 28
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
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<221> MOD_RES
<222> (1)
<223> Isocaproyl-Ser
<220>
<221> MOD_RES
<222> (6)
<223> Aib
<220>
<221> MOD_RES
<222> (7)
<223> Lys(For)
<220>
<221> MOD_RES
<222> (13)
<223> Aib
<220>
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<221> MOD_RES
<222> (14)
<223> Lys(For)
<400> 61
Ser Thr Ala Val Leu Xaa Lys Leu Ser Gln Glu Leu Xaa Lys Leu Gln
                                     10
                                                          15
Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 62
<211> 28
<212> PRT
<213> Artificial Sequence
<220>
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      amino acid sequence
<220>
<221> MOD_RES
<222> (1)
<223> Isocaproyl-Ser
<220>
<221> MOD_RES
<222> (6)
<223> Aib
<220>
<221> MOD_RES
<222> (7)
<223> Lys(For)
<220>
<221> MOD_RES
<222> (13)
<223> Aib
<220>
<221> MOD_RES
<222> (14)
<223> Lys(For)
<400> 62
Ser Thr Ala Val Leu Xaa Lys Leu Ser Gln Glu Leu Xaa Lys Leu Gln
Thr Tyr Pro Arg Thr Asn Val Gly Ser Asn Thr Tyr
<210> 63
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT amino acid sequence
<400> 63
Lys Cys Asn Thr Ala Thr Cys Leu Leu Gln Gln Leu Gln Lys Leu Leu
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Gln Lys Leu Lys Gln Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr 20 25 30

<210> 64

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic amino acid sequence

<400> 64

Lys Cys Asn Thr Ala Ser Cys Val Leu Gly Arg Leu Ser Gln Glu Leu 10 15

His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr 20 25 30

<210> 65

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic amino acid sequence

<400> 65

Lys Cys Asn Thr Ala Val Cys Val Leu Gly Arg Leu Ser Gln Glu Leu 10 15

His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr

<210> 66

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic amino acid sequence

<400> 66

His Arg Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr 20 25

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<210> 67
<211> 32
<212> PRT
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<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (11)
<223> Lys(For)
<220>
<221> MOD_RES
<222> (18)
<223> Lys(For)
<400> 67
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Lys Leu Ser Gln Glu Leu
His Lys Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 68
<211> 32
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (6)
<223> D-Thr
<400> 68
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 69
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<221> MOD_RES
<222> (6)
<223> dAh
<400> 69
Lys Cys Asn Thr Ala Xaa Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
                                                          15
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 70
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (1)
<223> Ac-Ala
<220>
<221> MOD_RES
<222> (18)
<223> Lys(PEG5000)
<400> 70
Ala Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
                                     10
                                                          15
His Lys Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 71
<211> 35
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 71
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser
Asn Thr Tyr
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<210> 72
<211> 36
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 72
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Leu Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly
            20
Ser Asn Thr Tyr
        35
<210> 73
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
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      amino acid sequence
<400> 73
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Lys Leu Ser Gln Glu Leu
                                     10
His Lys Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 74
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 74
Lys Cys Asn Thr Ser Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 75
<211> 32
<212> PRT
<213> Artificial Sequence
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 75
Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
                                 25
<210> 76
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 76
Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Val Gly Ser Asn Thr Tyr
            20
<210> 77
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 77
Lys Cys Asn Thr Ser Thr Cys Ala Thr Gln Arg Leu Ala Asn Glu Leu
Val Arg Leu Gln Thr Tyr Pro Arg Thr Asn Val Gly Ser Asn Thr Tyr
<210> 78
<211> 32
<212> PRT
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<220>
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      amino acid sequence
<220>
<221> MOD_RES
<222> (6)
<223> Hse
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<400> 78
Lys Cys Asn Thr Ala Xaa Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
                                                     30
<210> 79
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
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      amino acid sequence
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<221> MOD_RES
<222> (6)
<223> Ahb
<400> 79
Lys Cys Asn Thr Ala Xaa Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 80
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (6)
<223> Ahp
<400> 80
Lys Cys Asn Thr Ala Xaa Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 81
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
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<220>
<221> MOD_RES
<222> (6)
<223> Thr(OPO3H2)
<400> 81
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
                                  25
<210> 82
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (11)
<223> Orn
<220>
<221> MOD_RES
<222> (18)
<223> Orn
<400> 82
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Xaa Leu Ser Gln Glu Leu
His Xaa Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 83
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (11)
<223> Cit
<220>
<221> MOD_RES
<222> (18)
<223> Cit
<400> 83
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Xaa Leu Ser Gln Glu Leu
His Xaa Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 84
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
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<221> MOD_RES
<222> (11)
<223> homoK
<220>
<221> MOD_RES
<222> (18)
<223> homoK
<400> 84
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Lys Leu Ser Gln Glu Leu
His Lys Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 85
<211> 33
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (1)
<223> L-Octylglycine
<400> 85
Xaa Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu
Leu His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr
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Tyr

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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<210> 86
<211> 31
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (1)
<223> N-3,6-dioxaoctanoyl-Cys
<400> 86
Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu His
Arg Leu Gln Thr Val Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 87
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 87
Lys Cys Asn Thr Ala Thr Cys Met Leu Gly Arg Tyr Thr Gln Asp Phe
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 88
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 88
Asp Ser Asn Leu Ser Thr Lys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 89
<211> 32
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 89
Lys Asp Asn Thr Ala Thr Lys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 90
<211> 31
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 90
Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu His
Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 91
<211> 33
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (33)
<223> 9Anc
<400> 91
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
Xaa
<210> 92
<211> 33
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (33)
<223> L-octylglycine
<400> 92
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
Xaa
<210> 93
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (1)
<223> N-isocaproyl-Lys
<400> 93
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 94
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (11)
<223> homoR
<220>
<221> MOD_RES
<222> (18)
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<223> homoR
<400> 94
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 95
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 95
Phe Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 96
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (18)
<223> Cit
<400> 96
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Xaa Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 97
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<222> (18)
<223> Orn
<400> 97
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Xaa Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 98
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 98
Ile Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 99
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (1)
<223> 1-Octylglycine
<400> 99
Xaa Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 100
<211> 31
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<221> MOD_RES
<222> (1)
<223> Isocaproyl-Cys
<400> 100
Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu His
Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 101
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (11)
<223> Cit
<400> 101
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Xaa Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 102
<211> 33
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (33)
<223> 4ABU
<400> 102
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
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Xaa

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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<210> 103
<211> 33
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<220>
<221> MOD_RES
<222> (1)
<223> Isocaproyl-Lys
<220>
<221> MOD_RES
<222> (33)
<223> 4ABU
<400> 103
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
                                     10
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
                                 25
Xaa
<210> 104
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 104
Lys Cys Asn Thr Ser Thr Cys Ala Thr Gln Arg Leu Ala Asn Glu Leu
                                     10
Val Arg Leu Gln Thr Tyr Pro Arg Thr Asn Val Gly Ser Glu Ala Phe
            20
<210> 105
<211> 31
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 105
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
                                     10
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His Arg Leu Gln Thr Tyr Pro Thr Asn Val Gly Ser Glu Ala Phe 20 25 30

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<210> 106
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<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic amino acid sequence

<400> 106

Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Arg Ser Leu 1 5 15

His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr 20 25 30

<210> 107

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic amino acid sequence

<400> 107

Lys Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ser Gln Glu Leu

10
15

His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr 20 25 30

<210> 108

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 amino acid sequence

<400> 108

Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Asp Phe Leu 1 5 15

His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr 20 25 30

<210> 109

<211> 30

<212> PRT

<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 109
Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu His
Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr
<210> 110
<211> 33
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 110
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Asn Phe Val Pro Arg Thr Asn Thr Gly Ser Asn Thr
Tyr
<210> 111
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 111
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Glu Thr Phe
            20
<210> 112
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<400> 112
Ala Cys Asp Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 113
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 113
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Lys Ala Phe
            20
<210> 114
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 114
Lys Cys Asp Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu
Ser Arg Ser Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 115
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 115
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Asp Ala Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
                                25
            20
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<210> 116
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 116
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Ala Phe Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 117
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 117
Ser Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Asp Phe Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 118
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 118
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Met Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 119
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<400> 119
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Val Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 120
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 120
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Asn Glu Tyr Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 121
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 121
Ser Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 122
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 122
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Thr Glu Phe Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<210> 123
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 123
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Glu Phe Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 124
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 124
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Thr Asp Tyr Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
                                                     30
            20
<210> 125
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 125
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Gln Phe Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 126
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<400> 126
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Asp Phe Leu
His Arg Phe Gln Thr Phe Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 127
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 127
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Asp Phe Leu
His Arg Phe His Thr Phe Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 128
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 128
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Asp Phe Leu
His Arg Phe Gln Thr Phe Pro Arg Thr Asn Thr Gly Ser Gly Thr Pro
<210> 129
<211> 31
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 129
Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Asp Phe Leu His
Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<210> 130
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 130
Lys Cys Asp Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 131
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 131
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Phe Asp Phe Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 132
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 132
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ala Ala Ala Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
<210> 133
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<400> 133
Thr Cys Asp Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 134
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 134
Cys Ser Asn Leu Ser Thr Cys Ala Thr Gln Arg Leu Ala Asn Glu Leu
                                     10
Val Arg Leu Gln Thr Tyr Pro Arg Thr Asn Val Gly Ser Asn Thr Tyr
            20
<210> 135
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 135
Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Glu Leu
Val Arg Leu Gln Thr Tyr Pro Arg Thr Asn Val Gly Ser Asn Thr Tyr
<210> 136
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 136
Cys Ser Asn Leu Ser Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
                                25
            20
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CorrectedSeq-filed-2011-Mar-0105UTL2.TXT
<210> 137
<211> 32
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      amino acid sequence
<400> 137
Lys Cys Asn Thr Ala Thr Cys Val Leu Gly Arg Leu Ser Gln Glu Leu
His Arg Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Asn Thr Tyr
            20
<210> 138
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      peptide
<220>
<221> MOD_RES
<222> (1)
<223> Any amino acid; see specification as filed
      for detailed description of substitutions and
      preferred embodiments
<220>
<221> MOD_RES
<222> (2)
<223> Any amino acid or not present
<220>
<221> MOD_RES
<222> (3)
<223> Ala, Gly, Ser, Asp, or not present
<220>
<221> MOD_RES
<222> (4)
<223> Asn, Ala, Asp, Gly, or not present
<220>
<221> MOD_RES
<222> (5)
<223> Ala, Leu, Thr, or Ser
<220>
<221> MOD_RES
<222> (6)
<223> Ala, Ser, or Thr
<220>
<221> MOD_RES
<222> (7)
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